

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00544\_5 ~ SR2MRX-XT13LE1-XD2FXXK-MDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00544\_5\_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 2/21/2017

[UPDATE] 4/19/2017

[LUMCAT] SR2MRx-XT13L-E1-xD2F-xxK-MD-MW-GL

[LUMINAIRE] Nom. 2" Round or Square Trim Downlight, Medium Beam

[OTHER] Matte White Trim, clear glass lens

[OTHER] 35.7 Degree Beam Angle

[LAMP] N/A

[LAMPCAT] N/A, Min. 83 CRI

[OTHER] Total Luminaire Watts is approximate

[OTHER] For New Construction Non-IC Housing: SR2MO-XT-series

[OTHER] For New Construction IC Rated Housing: SR2MI-XT-Series

[OTHER] For Remodel/Retrofit Housing: SR2MR-XT-Series

[OTHER] For RD2F or SD2F Downlight Trim

[OTHER] LEDXT lumen output is the same for all available CCT's

[OTHER] This report prepared by Spectrum Lighting, scaled from 20L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1124
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.60
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.24 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00544\_5 ~ SR2MRX-XT13LE1-XD2FXXK-MDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19709	18669	20929
55	7450	7041	7724
65	4589	4162	4960
75	2186	2201	2410
85	2785	2327	3704

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00544\_5 ~ SR2MRX-XT13LE1-XD2FXXK-MDMWGL.IES****CANDELA TABULATION**

	<b><u>0.0</u></b>	<b><u>22.5</u></b>	<b><u>45.0</u></b>	<b><u>67.5</u></b>	<b><u>90.0</u></b>
<b>0</b>	2377.387	2377.387	2377.387	2377.387	2377.387
<b>5</b>	2286.404	2283.876	2280.744	2274.657	2272.635
<b>10</b>	1962.528	1958.174	1965.426	1954.781	1957.435
<b>15</b>	1467.103	1460.462	1460.259	1463.409	1475.953
<b>20</b>	981.620	973.539	972.329	979.484	997.070
<b>25</b>	625.141	617.361	619.576	626.967	644.165
<b>30</b>	377.549	375.549	378.037	382.812	396.439
<b>35</b>	210.760	210.748	210.103	214.677	224.693
<b>40</b>	109.099	106.616	104.959	110.006	118.033
<b>45</b>	56.209	54.344	53.243	55.529	59.688
<b>50</b>	31.628	28.720	28.047	29.106	31.794
<b>55</b>	17.235	16.978	16.289	17.107	17.869
<b>60</b>	10.774	11.828	12.459	11.712	12.592
<b>65</b>	7.823	8.091	7.095	7.982	8.455
<b>70</b>	4.891	4.558	4.554	4.985	5.365
<b>75</b>	2.282	2.192	2.298	2.125	2.516
<b>80</b>	1.318	0.912	0.872	1.021	0.917
<b>85</b>	0.979	0.892	0.818	0.848	1.302
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	611.71	N.A.	54.40
0-30	907.11	N.A.	80.70
0-40	1048.35	N.A.	93.30
0-60	1112.6	N.A.	99.00
0-80	1123.31	N.A.	99.90
0-90	1124.08	N.A.	100.00
10-90	916.75	N.A.	81.60
20-40	436.64	N.A.	38.80
20-50	484.12	N.A.	43.10
40-70	72.25	N.A.	6.40
60-80	10.71	N.A.	1.00
70-80	2.71	N.A.	0.20
80-90	0.77	N.A.	0.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1124.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	207.33
10-20	404.38
20-30	295.40
30-40	141.23
40-50	47.48
50-60	16.76
60-70	8.00
70-80	2.71
80-90	0.77
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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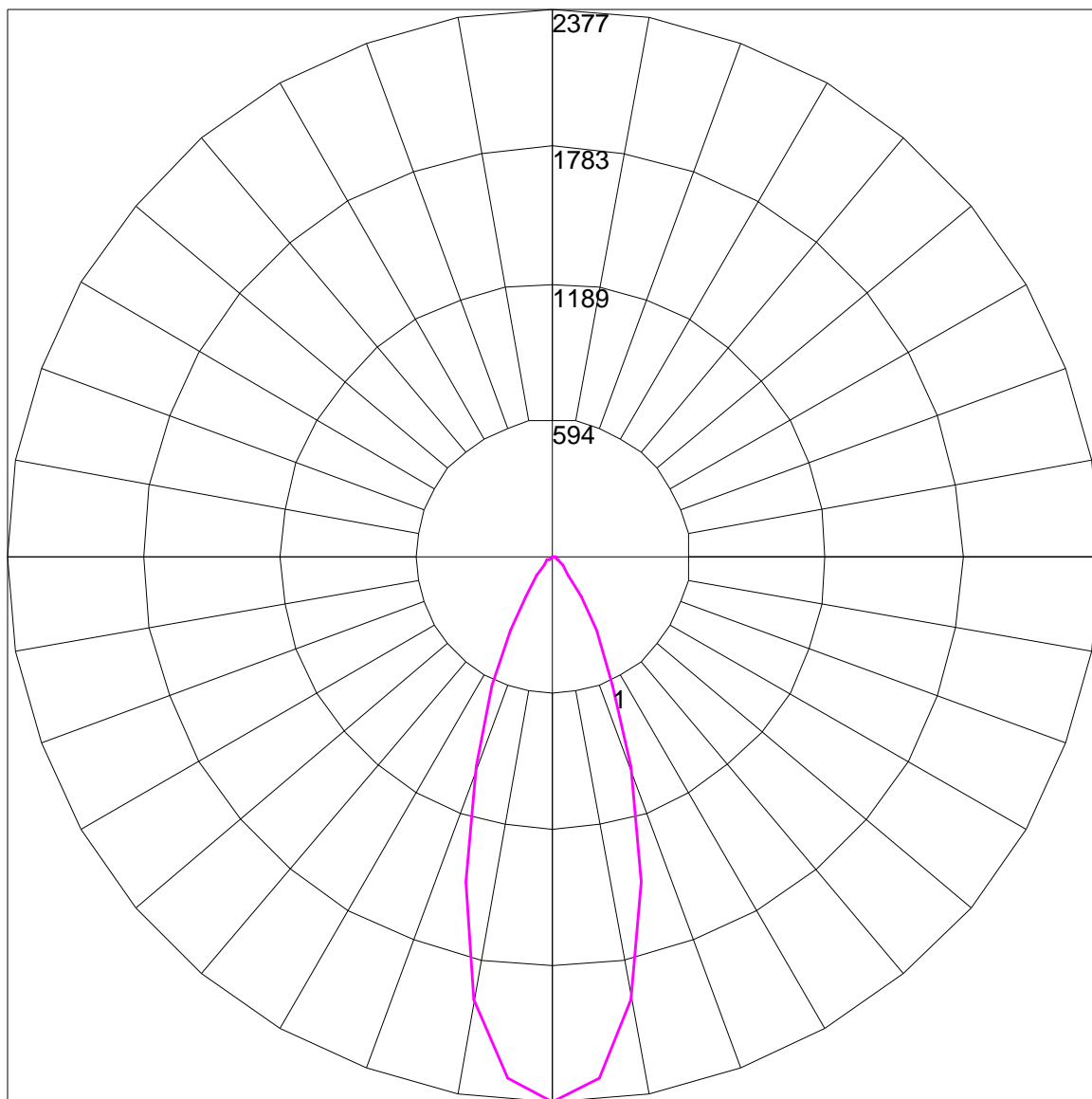
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	104	101	98	107	103	99	97	100	97	94	97	94	92	94	92	91	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	72	71
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68
8	84	76	70	67	83	75	70	66	74	69	66	73	69	66	72	68	66	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59

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POLAR GRAPH



Maximum Candela = 2377.387 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)